

IN THE CLAIMS:

1. (Currently Amended) An oval-cut diamond comprising a columnar girdle, a crown provided above the girdle and having an octagonal table facet on a top of the crown and a pavilion provided below the girdle;

the girdle having an upper ridge between the crown and the girdle, a lower ridge
5 between the pavilion and the girdle and a contour line of a girdle cross-section, parallel to the table facet, being in an oval or oval-like shape;

wherein the diamond has:

a central plane containing a long axis of the contour line and being a
plane vertical to the table facet,

10 a straight central axis crossing vertically the table facet on the central plane,

a circumscribed circle having a center on the central axis and
circumscribing the contour line at an end of the long axis, and

eight-dividing planes composed of the central plane, a plane containing
15 a short axis of the contour line of the girdle cross-section and the central axis
and planes dividing an angle around the central axis between the plane
containing the short axis and the central axis and the central plane equally into
two;

the table facet having two opposite vertexes on the central plane and six vertexes
20 symmetrical with respect to the central plane;

the crown having eight tetragonal crown main facets, eight triangular star facets and sixteen upper girdle facets on a diamond circumference between the girdle upper ridge and the table facet;

25 wherein each of the crown main facets is a tetragon having two opposite vertexes composed of a point, at which each of the eight-dividing planes crosses the girdle upper ridge, and each vertex of the table facet, and other vertexes each owned jointly with each of two other crown main facets neighboring on the crown main facet;

 each of the star facets is a triangle having a bottom side coinciding with each side of the table facet and an opposite vertex coinciding with each of the other vertexes
30 jointly owned by two neighboring crown main facets each having a vertex at each end of the bottom side; and

 each of the upper girdle facets is a triangle or an oval sector having a bottom side coinciding with a side, whose end is on the girdle upper ridge, among sides of the crown main facets and a vertex on the girdle upper ridge;

35 the pavilion having a bottom apex at a lower end of the central axis, and eight pavilion main facets and sixteen lower girdle facets on the diamond circumference between the bottom apex and the girdle lower ridge;

 wherein each of the pavilion main facets is a tetragon or a part of a tetragon extending from the bottom apex toward a crossing point of each of the eight-dividing
40 planes with the girdle lower ridge on the diamond circumference between the bottom apex and the girdle lower ridge, and having a side, whose end coincides with the

bottom apex, jointly owned with each of two other pavilion main facets neighboring on the pavilion main facet;

each of at least seven pavilion main facets among the pavilion main facets is formed with opposite vertexes composed of a crossing point of each of the eight-dividing planes with the circumscribed circle and the bottom apex;

each of the lower girdle facets formed between the pavilion main facets and the girdle lower ridge is a triangle or an oval sector having a bottom side coinciding with a side having an end on the girdle lower ridge among sides of each of the pavilion main facets and a vertex on the girdle lower ridge; and

each of the lower girdle facets is disposed on each of both sides of each of the pavilion main facets;

wherein the oval or oval-like shape formed by the contour line of the girdle cross-section has a ratio of a short radius to a long radius (b/a) of 0.6 or more, and less than 0.95, in which the long radius is a radius in a long axis direction of the oval or oval-like shape (~~hereinafter, referred to as "long radius"~~) is denoted as "a", and the short radius is a radius in a short axis direction of the oval or oval-like shape (~~hereinafter, referred to as "short radius"~~) is denoted as "b",

wherein each pair of four pairs of pavilion main facets, of which each pair is composed of two pavilion main facets positioned opposite to each other with respect to the central axis, has two crown main facets facing the two pavilion main facets through the girdle, and

the two pavilion main facets, the two crown main facets and the table facet cross

vertically one of the eight dividing planes to have a common plane vertical to all of them within them.

2. (Original) An oval-cut diamond as set forth on claim 1, wherein the central axis is disposed in a center of the long axis of the contour line of the girdle cross-section, and the circumscribed circle circumscribes the contour line at both ends of the long axis.

3. (Original) An oval-cut diamond as set forth on claim 2, wherein each of the pavilion main facets has opposite vertexes composed of a crossing point of each of the eight-dividing planes with the circumscribed circle and the bottom apex.

4. (Original) An oval-cut diamond as set forth on claim 3, wherein each of the pavilion main facets has a substantially equal pavilion angle to the table facet.

5. (Original) An oval-cut diamond as set forth on claim 4, wherein a crown main facet that each of the pavilion main facets having the substantially equal pavilion angle faces through the girdle has a substantially equal crown angle to the table facet.

6. (Currently Amended) An oval-cut diamond as set forth on claim 5, wherein a pavilion angle to the table facet each of the pavilion main facets has and a crown angle to the table facet each of the crown main facets has are in a region surrounded by lines connecting

the following points (p, c) : (43 degrees, 10 degrees; \downarrow), (41 degrees, 14 degrees; \downarrow), (37 degrees, 23 degrees; \downarrow), (35 degrees, 33 degrees; \downarrow), (35 degrees, 36 degrees; \downarrow), (37 degrees, 42 degrees; \downarrow), (39 degrees, 42 degrees; \downarrow), (41 degrees, 36 degrees; \downarrow), (43 degrees, 24 degrees) and (44.7 degrees, 9 degrees) on a graph drawn with pavilion angles (p) in a vertical line and crown angles (c) in a horizontal line.

7. (Original) An oval-cut diamond as set forth on claim 6, wherein the girdle has a substantially equal girdle height around a whole circumference of the girdle, and six pavilion main facets excluding two pavilion main facets extending in a long axis direction from the bottom apex and lower girdle facets disposed between two neighboring pavilion main facets among the six pavilion main facets have adjusting facets between a respective facet and the girdle lower ridge having a larger angle to the table facet than the pavilion angle and forming a ridge between the respective facet and each of the adjusting facets.

8. (Original) An oval-cut diamond as set forth on claim 1, wherein at least seven pavilion main facets having opposite vertexes composed of a crossing point of each of the eight-dividing planes with the circumscribed circle and the bottom apex have a substantially equal pavilion angle to the table facet.

9. (Original) An oval-cut diamond as set forth on claim 8, wherein a crown main facet that each of the pavilion main facets having the substantially equal pavilion angle faces through

the girdle has a substantially equal crown angle to the table facet.

10. (Currently Amended) An oval-cut diamond as set forth on claim 9, wherein a pavilion angle to the table facet each of the pavilion main facets has and a crown angle to the table facet each of the crown main facets has are in a region surrounded by lines connecting the following points ~~(p, c): (43 degrees, 10 degrees;), (41 degrees, 14 degrees;), (37 degrees, 23 degrees;), (35 degrees, 33 degrees;), (35 degrees, 36 degrees;), (37 degrees, 42 degrees;), (39 degrees, 42 degrees;), (41 degrees, 36 degrees;), (43 degrees, 24 degrees) and (44.7 degrees, 9 degrees)~~ on a graph drawn with pavilion angles (~~p~~) in a vertical line and crown angles (~~c~~) in a horizontal line.

11. (Original) An oval-cut diamond as set forth on claim 10, wherein the girdle has a substantially equal girdle height around a whole circumference of the girdle, and six pavilion main facets excluding two pavilion main facets extending in a long axis direction from the bottom apex and lower girdle facets disposed between two neighboring pavilion main facets among the six pavilion main facets have adjusting facets between a respective facet and the girdle lower ridge having a larger angle to the table facet than the pavilion angle and forming a ridge between the respective facet and each of the adjusting facets.

12. (Original) An oval-cut diamond as set forth on claim 1, wherein the contour line of the girdle cross-section parallel to the table is oval.

13. (Original) An oval-cut diamond as set forth on claim 1, wherein the contour line of the girdle cross-section parallel to the table is in a shape of two oval sectors crossing each other.

14. (Original) An oval-cut diamond as set forth on claim 1, wherein the contour line of the girdle cross-section parallel to the table is in a shape of three oval sectors crossing each other.

15. (New) An oval-cut diamond as set forth in claim 5, wherein:

each of said pavilion main facets has a pavilion angle to said table facet and each of said crown main facets has a crown angle to said table facet, said pavilion angle and said crown angle are in a range surrounded by a line on a graph drawn with pavilion angles versus crown angles, said line on said graph being defined by the following connecting points:

43 degrees, 10 degrees;

41 degrees, 14 degrees;

37 degrees, 23 degrees;

35 degrees, 33 degrees;

35 degrees, 36 degrees;

37 degrees, 42 degrees;

39 degrees, 42 degrees;

41 degrees, 36 degrees;

43 degrees, 24 degrees; and

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44.7 degrees, 9 degrees.

16. (New) An oval-cut diamond comprising:

a columnar girdle;

a crown provided above the girdle and having an octagonal table facet on a top of the crown, the girdle having an upper ridge between the crown and the girdle, the girdle having a contour line of a girdle cross-section, parallel to the table facet, being in an oval or oval-like shape;

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a pavilion provided below the girdle, the girdle having a lower ridge between the pavilion and the girdle;

a central plane containing a long axis of the contour line and being a plane normal to the table facet;

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a central axis crossing normal to the table facet on the central plane;

a circumscribed circle having a center on the central axis and circumscribing the contour line at an end of the long axis;

a plurality of dividing planes composed of the central plane, a short axis plane containing a short axis of the contour line of the girdle cross-section and the central axis, and interim planes dividing an angle around the central axis between the short axis plane and the central plane into two;

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the table facet having two opposite vertexes on the central plane and six vertexes

symmetrical with respect to the central plane;

20 the crown having eight tetragonal crown main facets, eight triangular star facets and sixteen upper girdle facets on a diamond circumference between the girdle upper ridge and the table facet;

 wherein each of the crown main facets is a tetragon having two opposite vertexes composed of a point, at which each of the eight-dividing planes crosses the
25 girdle upper ridge, and each vertex of the table facet, and other vertexes each owned jointly with each of two other crown main facets neighboring on the crown main facet;

 each of the star facets is a triangle having a bottom side coinciding with each side of the table facet and an opposite vertex coinciding with each of the other vertexes jointly owned by two neighboring crown main facets each having a vertex at each end
30 of the bottom side; and

 each of the upper girdle facets is a triangle or an oval sector having a bottom side coinciding with a side, whose end is on the girdle upper ridge, among sides of the crown main facets and a vertex on the girdle upper ridge;

 the pavilion having a bottom apex at a lower end of the central axis, and eight pavilion
35 main facets and sixteen lower girdle facets on the diamond circumference between the bottom apex and the girdle lower ridge;

 wherein each of the pavilion main facets is a tetragon or a part of a tetragon extending from the bottom apex toward a crossing point of each of the eight-dividing planes with the girdle lower ridge on the diamond circumference between the bottom

40 apex and the girdle lower ridge, and having a side, whose end coincides with the
bottom apex, jointly owned with each of two other pavilion main facets neighboring
on the pavilion main facet;

each of at least seven pavilion main facets among the pavilion main facets is
formed with opposite vertexes composed of a crossing point of each of the
45 eight-dividing planes with the circumscribed circle and the bottom apex;

each of the lower girdle facets formed between the pavilion main facets and the
girdle lower ridge is a triangle or an oval sector having a bottom side coinciding with
a side having an end on the girdle lower ridge among sides of each of the pavilion main
facets and a vertex on the girdle lower ridge; and

50 each of the lower girdle facets is disposed on each of both sides of each of the
pavilion main facets;

wherein the oval or oval-like shape formed by the contour line of the girdle
cross-section has a ratio of a short radius to a long radius between 0.6 to 0.95, in which the
long radius is in a long axis direction of the oval or oval-like shape, and the short radius is in
55 a short axis direction of the oval or oval-like shape;

pairs of pavilion main facets are formed which are positioned opposite to each other
with respect to the central axis;

pairs of crown main facets are formed which are positioned opposite to each other with
respect to the central axis;

60 an opposing group of main facets is formed by each pair of pavilion main facets and

a respective pair of crown main facets facing said each pair of pavilion main facets through the girdle;

each said opposing group of main facets being at substantially right angles to a respective said dividing plane.

17. (New) An oval-cut in accordance with claim 16, wherein:

said each opposing group of main facets each have a common vertical crossing plane which includes said table facet;

said interim planes divide in half the angle between the short axis plane and the central plane.

18. (New) An oval-cut diamond in accordance with claim 16, wherein:

each of said pavilion main facets has a pavilion angle to said table facet and each of said crown main facets has a crown angle to said table facet, said pavilion angle and said crown angle are in a range surrounded by a line on a graph drawn with pavilion angles versus crown angles, said line on said graph being defined by the following connecting points:

pavilion angle,	crown angle
43 degrees,	10 degrees;
41 degrees,	14 degrees;
37 degrees,	23 degrees;
35 degrees,	33 degrees;

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35 degrees,	36 degrees;
37 degrees,	42 degrees;
39 degrees,	42 degrees;
41 degrees,	36 degrees;
43 degrees,	24 degrees;
44.7 degrees,	9 degrees.